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ABSTRACT

A desalination apparatus capable of obtaining fresh water stably at low cost by utilizing low-temperature waste, wherein the desalination apparatus including a heat exchanger 92 cooperating with an evaporation can 60 so as to subject a low-temperature waste heat 11 and raw water 62 in the evaporation can 60 to heat exchange and generate water vapor 63 in the evaporation can 60; a condenser 98 cooperating with a raw water tank 72 so as to receive the water vapor 63 from the evaporation can 60, cool the water vapor 63 by subjecting the water vapor 63 and raw water 71 in the raw water tank 72 to heat exchange and obtain distilled water 76; a distilled water tank for storing the distilled water 76; vacuum means for evacuating the evaporation can 60 and depressurizing the inside thereof so as to promote generation of water vapor 63 in the evaporation can 60; and raw water supply means for supplying raw water to the evaporation can.